

Title (en)
Security laminate

Title (de)
Sicherheitslaminat

Title (fr)
Stratifié de sécurité

Publication
EP 1134091 A1 20010919 (EN)

Application
EP 00308623 A 20000929

Priority
US 51511700 A 20000229

Abstract (en)
A laminate (10) for providing a measure of security against counterfeiting of valuable documents. The laminate (10) includes a base layer (12) and first and second outer layers (14, 16) bonded to opposite sides of the base layer (12) with an adhesive. The base layer (12) includes a plurality of flow-through holes (20) that allow the adhesive to directly bond the first and second outer layers (14, 16) to one another. The flow-through holes (20) are spaced from one another such that an attempt to peel one of the outer layers (14, 16) from the base layer (12) will result in the base layer (12) being torn between adjacent holes, rendering the base layer (12) unfit for re-use. A method of making the laminate (10) is also disclosed. To form the laminate (10), the first outer layer (14) is first bonded to one side of the base layer (12). The plurality of flow through holes are then drilled into the base layer (12) using one or more laser drills. The second outer layer (16) is then bonded to the base layer (12) opposite the first outer layer (14). <IMAGE>

IPC 1-7
B42D 15/00; **B42D 15/10**; **B32B 3/24**; **B32B 29/00**; **B32B 27/36**

IPC 8 full level
B42D 15/10 (2006.01); **B32B 3/24** (2006.01); **B32B 7/12** (2006.01); **B32B 27/36** (2006.01); **B32B 29/00** (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP)
B32B 3/266 (2013.01); **B32B 27/36** (2013.01); **B32B 29/00** (2013.01); **B42D 25/29** (2014.10)

Citation (search report)
• [XAY] EP 0628408 A1 19941214 - ANDRIC DRAGISA [YU], et al
• [XA] EP 0596547 A1 19940511 - DORNED BV [NL]
• [Y] GB 2316359 A 19980225 - COLE IVOR SELMAN [GB]
• [Y] US 5895074 A 19990420 - CHESS STANLEY C [US], et al
• [Y] FR 2401271 A1 19790323 - MALLEVILLE JOSE [FR]

Cited by
GB2553391A; EP1854641A3; GB2591358A; EP1375135A3; EP1854641A2; US6815022B2; WO2020024016A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1134091 A1 20010919; **EP 1134091 B1 20040128**; AR 025895 A1 20021218; AU 6248300 A 20010830; AU 774785 B2 20040708; BR 0100537 A 20020102; CA 2324764 A1 20010829; DE 60007957 D1 20040304; DE 60007957 T2 20040715; JP 2001246681 A 20010911

DOCDB simple family (application)
EP 00308623 A 20000929; AR P000105118 A 20000928; AU 6248300 A 20001003; BR 0100537 A 20010214; CA 2324764 A 20001030; DE 60007957 T 20000929; JP 2000307733 A 20001006